

— eloy water

biological wastewater treatment plant airoxy®

eloy



from 15 to
600 m³/day
small and
medium-size
communities



biological
process
sequencing
biological
reactor

its use

the airoxy® is the ideal solution for wastewater treatment for **small and medium-size communities**: campsites, hotels, housing estate, villages, etc.

The airoxy® is a **simple, efficient, cost-effective, easy to maintain and durable solution**, specially designed to meet this need.

its process



① the **buffer tank**

Regulates the SBR hydraulic load by smoothing inflow peaks. Its capacity ensures that it can retain the incoming flow during the settling and discharge phases. It is equipped with a discharge pump customisable depending on the inflow rate.

② the **SBR reactor**

- **fill and activation**: during filling, an air blower injects the amount of oxygen needed to treat the wastewater. It also mixes the mixed liquor.
- **settling**: depending on the operational mode selected, when the activation time is reached or the level detector identifies a high level, the activation period will end and the settling phase will begin.
- **discharge**: the treated water is evacuated via floating decanter which pump the effluent from just below the water's surface. The clarified water can be returned to the environment.

③ a **sludge silo**

A purge pump installed at the bottom of the reactor ensures storage silo filling to remove the excess sludge generated by the biological treatment.

the product range

the airoxy® solution provides you with a **range of installation options** depending on the specificities of your project:

airoxy® P-90

- 150 m³/day
- prefabricated concrete tank
- **your benefit:** a plug-and-play solution reduces installation time



airoxy® KIT

- 600 m³/day
- electromechanical kit installed in a tank manufactured on site
- **your benefit:** enables you to optimise transport costs if your work site is far from our plant



benefits

easy installation

- suitable for a range of installation conditions: **buried and partially buried tanks**
- **easy to integrate** with existing treatment drainage systems: reactor filling by pump, high outflow, etc.

high-performance process

- high-performance **suited to the requirements** of your markets
- option to add **tertiary treatment** to reduce nitrogen, phosphorus and/or for disinfection
- can be used for **industrial treatment**
- **20% more compact** than an activated sludge or fixed-film system

flexible solution


- **adjustable treatment and aeration volumes** based on fluctuations in the pollution level on input (particularly well-suited for installations whose operation fluctuates between high and low seasons, notably the hospitality industry)
- the **buffer tank** moderates the negative effects of feed points and ensures appropriate staying time (integrated lift pump)

incomparable peace of mind

- **low visual impact** (can be completely underground)
- **quiet**
- **no unpleasant odours:** process with no anaerobic treatment phase

robust eco-design

- **reliable** electromechanical equipment: well-known brands available around the world (Siemens, Kaeser, HPE, Flygt, KSB, Hendres Hausser)
- optimised energy **yield**
- **remote management** and control of the station

 performance

BOD ₅	COD	TSS
< 20 mgO ₂ /L	< 90 mgO ₂ /L	< 30 mg/L

Contact us for additional information if more stringent environmental conditions must be met.

with eloy, you're **never** alone

- professional **support**

eloy **listens and recommends you** on the design and choice of solution

- **support** for logistics and work site **coordination**

eloy **delivers directly on site**

- **assistance** and **training** for installation

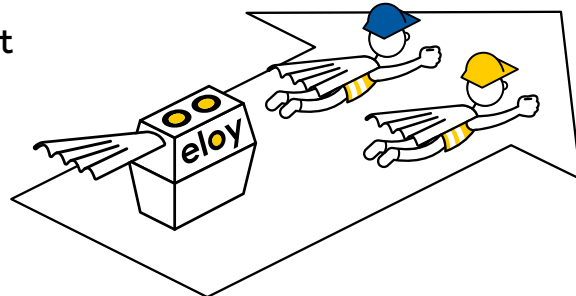
eloy **trains and assists** operators on the operation, use and maintenance of the products and, on request, commissioning of the product

- the eloy **after-sales** department

eloy **will assist** you with all of your questions about your product

more information is available at
eloywater.com

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